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ABSTRACT

5 A carbon fiber woven fabric is obtained by soaking a  
cellulose-based woven fabric in a phosphoric acid or  
phosphoric acid compound solution, if necessary, and then  
firing in a non-oxidizing atmosphere. Also, by filling a  
resin powder into and heating the above-mentioned carbon  
fiber woven fabric or a carbon fiber woven fabric  
obtained by firing a cellulose-based woven fabric in a  
10 non-oxidizing atmosphere without treatment in a  
phosphoric acid or phosphoric acid compound solution, it  
is possible to obtain a carbon fiber woven fabric  
suitable as a porous carbon sheet which also exhibits  
water repellency. The carbon fiber woven fabric has a  
15 thickness in the range of 0.05-0.4 mm, a volume  
resistivity of less than  $0.2 \Omega \cdot \text{cm}$  in the layer  
direction, and a gas permeability of  $1500 \text{ cc/cm}^2/\text{hr/mmHg}$   
or greater, and is useful as a gas diffusing carbon sheet  
for a fuel cell.

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